DUAL MODE BLUETOOTH/WIRELESS DEVICE WITH POWER CONSERVATION FEATURES

ABSTRACT

In a dual mode Bluetooth/wireless mobile unit, the next sleep mode Bluetooth wakeup time is rescheduled to synchronize with any upcoming idle mode wireless wakeup time that will otherwise precede the Bluetooth wakeup time. The Bluetooth clock is advanced, or other reconfiguration made to the Bluetooth module, as appropriate to prevent the scanning frequency from changing during a sleep mode Bluetooth wakeup/scanning interval commencing at the resynchronized Bluetooth wakeup time.